

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

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SECRETARY

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COMMISSIONER

Allison Callahan, ADA

Suffolk County District Attorney's Office
By e-mail

September 19, 2011

Re: Comm. v. [REDACTED]

ADA Callahan,

Please find below a discovery package for the case noted above. The material is collated in the following manner:

- 1) the c.v.'s of the chemists
- 2) the Evidence Office receipt to the Boston Police
- 3) the inventory control cards
- 4) the Drug Powder Analysis Form
- 5) uv screen
- 6) the gas chromatography/mass spectrometry (gc/ms) data
- 7) entry from the vegetable matter (v.m.) book

I was the custodial chemist responsible for the chain of custody, weights and the preliminary analysis of the exhibit. Annie Khan operated the gc/ms for the confirmatory analysis.

If you need further clarification of this material, call me directly at (617) 983-6627.

Sincerely,

Michael Lawler
Senior Chemist

Cc: Annie Khan

Curriculum Vitae

Michael Lawler

Education:

University of Virginia, Charlottesville, Va. Bachelor of Arts in English, 1975

Harvard University, Cambridge, Ma. Master of Arts in biology, 1995

Experience:

1990-present currently Chemist III, Mass. Dept. of Public Health, Drug Lab analyst determining the identity of unknown substances and providing expert testimony in the Courts. Conduct special testing for poisons within drug exhibits. Lab Safety Officer.

2005-2008 lecturer in chemistry, Curry College, Milton, Ma.

1988-1990 New England Newborn Screening (NENS) Biochemist conducting pilot studies and validation trials of new newborn screening tests. Investigator and co-author of papers noted below. Introduced screening test for Biotinidase Deficiency. Liaison with interstate collaborators in national studies.

1983-1988 Supervised NENS urine screening lab for metabolic disorders. Conducted research in collaboration with Children's Hospital (Boston) detecting neuroblastoma, a cancer of early childhood. Conducted reference testing for rare metabolic disorders for an international audience.

1982-1983 NENS hypothyroid assay technologist with Tuft's University

1979-1981 Mass. Bay Community College, staff technologist preparing materials for the laboratory technician program, which included reagents, apparatus and maintaining stock cultures of human pathogens.

Additional education and special training

Drug Analysis, completed six week training course by senior staff within the Department of Public Health Drug Analysis Laboratory

National Laboratory Network Training Program course as Expert Witness

Qualified as an expert witness in the Massachusetts Courts and the U.S. District Court

Current Drug Trends – Multijurisdictional Drug Task Force Academy

CDC course in antibiotic resistance CDC course in cell culture

CDC course in public health response to bioterrorism

U.S. Army course in biologic warfare and terrorism

Journal Publications

Screening, 1992, 1:34-37; Lawler,M., Frederick,S., Rodriguez-Anza, S., Wolf,B., Levy,H., *Newborn Screening for Biotinidase Deficiency, Pilot Study and Follow-up of Identified Cases*

Genetic Screening, 1990, 11-18, Mitchell,M., Lawler,M., Walraven,C., Hermos,R., *To Screen or Not to Screen for Congenital Hyperplasia: Is that the Question?*

The Journal of Pediatrics, 116: 78-83, Secor-McVoy,J., Lawler,M., Schmidt, M., Ebers,D., Hart,P., Pettit,D., Blitzer,M., Wolf,B., *Partial Biotinidase Deficiency: Clinical and Biochemical Features*

Professional Affiliations

Northeastern Association of Forensic Scientists (NEAFS) since 2005

Awards

Theobald Smith Education Grant for graduate studies

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Responsible for the Quality Control/Quality Assurance program for the drug lab.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

DRUG RECEIPT

CC #

BOOK #

PAGE #

DESTRUCTION #

District/Unit

Name & Rank of Arresting Officer

ID#

DEFENDANT'S NAME

ADDRESS

CITY

STATE

DESCRIPTION OF ITEMS SUBMITTED

GROSS
QUANTITYGROSS
WEIGHTLAB USE ONLY
ANALYSIS
NUMBER

Crystal Methamphetamine

1 Plastic Bag

4.91 gm

Marijuana

1 Plastic Bag

19.55 gm

Marijuana

1 clear glass Jar

138.70 gm

To be completed by ECU personnel only

Name and Rank of Submitting Officer

ID#

Received by

Date

ECU Control #

No. [REDACTED] Date Analyzed: 03-02-11
City: Boston D.C.U. Police Dept.
Officer: P.O. SYBIL WHITE
Def: [REDACTED]
Amount: Subst: SUB
No. Cont: 1 Cont: pb
Date Rec'd: 11/24/2010 No. Analyzed:
Gross Wt.: 4.91 ✓ Net Weight: 0.88g
Tests: 2 ASD
Prelim: amphetamine or methamphetamine Findings: methamphetamine

No. [REDACTED] Date Analyzed: 2/14/11
City: Boston D.C.U. Police Dept.
Officer: P.O. SYBIL WHITE
Def: [REDACTED]
Amount: Subst: VM
No. Cont: 1 Cont: pb
Date Rec'd: 11/24/2010 No. Analyzed:
Gross Wt.: 19.55 ✓ Net Weight: 12.39g
Tests: 4 ASD
Prelim: 2 Findings: Marijuana

No. [REDACTED] Date Analyzed: 2/14/11
City: Boston D.C.U. Police Dept.
Officer: P.O. SYBIL WHITE
Def: [REDACTED]
Amount: Subst: VM
No. Cont: 1 Cont: jar
Date Rec'd: 11/24/2010 No. Analyzed:
Gross Wt.: 138.70 ✓ Net Weight: 6.57g
Tests: 4 ASD
Prelim: 2 Findings: Marijuana

Evans 602331L 5 + the
Methamphetamine 010111 128

GCM 880
F 030111-5

DRUG POWDER ANALYSIS FORM

3-2-11

SAMPLE #



AGENCY

Boston DM

ANALYST

MA

No. of samples tested:

61ANETTA & Marzullo

Evidence Wt.

4.91

PHYSICAL DESCRIPTION:

2 iplock pb with crystal substance

Gross Wt (): 1.2957g

Gross Wt ():

Pkg. Wt:

Net Wt: 0.8844

044MS 2334 2/14/11
20g = 20.0002g
10g = 10.0000g
5g = 5.0002g
1g = 1.0000g

PRELIMINARY TESTS

Spot Tests

Cobalt Thiocyanate () (-)

Marquis (+)

Froehde's (+)

Mecke's (+)

Microcrystalline Tests

Gold Chloride

TLTA ()

OTHER TESTS

U.V (+) amphetamine or methamphetamine

PRELIMINARY TEST RESULTS

RESULTS

DATE

GC/MS CONFIRMATORY TEST

RESULTS methamphetamine

MS OPERATOR ASD

DATE 3-2-11

Wavelength Scan - Peak/Valley Picker Mode

Print Date: February 22, 2011 5:22 PM

Instrument Name : DU 800 Spectrophotometer
Serial Number : 8003263
Software Version : 3.0, Build 5 2.0.102
Method Name : Sample
Filename :
Acquired : February 22, 2011 5:10 PM

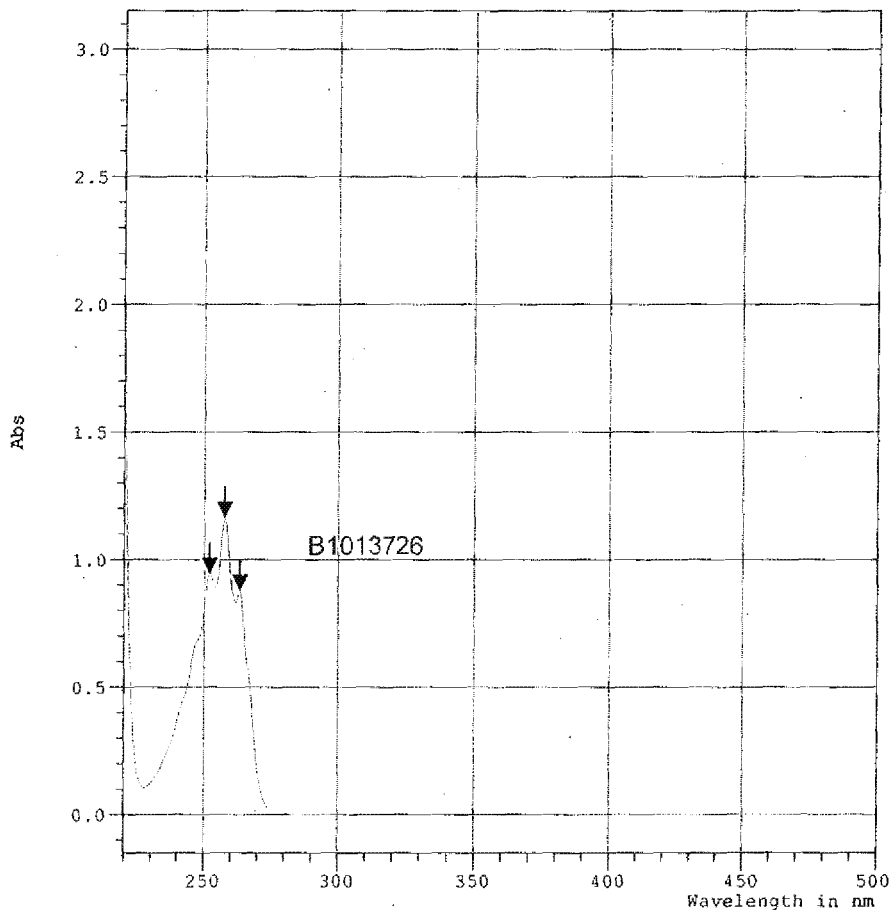
Scan Mode : Abs
Start Wavelength : 220.0 nm
End Wavelength : 500.0 nm
Wavelength Interval : 0.1 nm
Scan Speed : 120 nm/min

Peaks : Yes
Valleys : No
Number Of Peaks : 3
Sort Criteria : Wavelength, Descending

#	Sample Name	Description
1	Sample 2-1	B10-13726

Results (Peaks)

	nm	Abs
1	263.2	0.8803
2	257.5	1.1648
3	251.9	0.9447

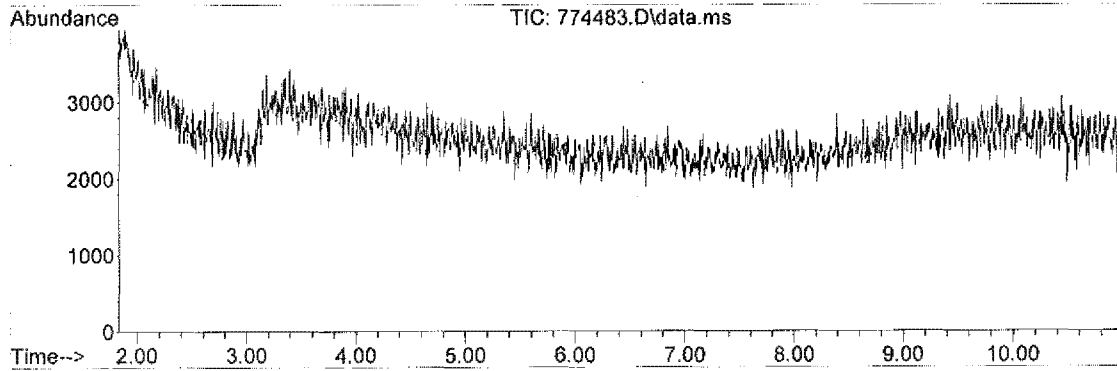


Area Percent / Library Search Report

Information from Data File:

File Name : I:\03_01_11\774483.D
Operator : ASD
Date Acquired : 2 Mar 2011 1:48
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: SPEED.M
Integrator : RTE

✓ ASD
09-12-11



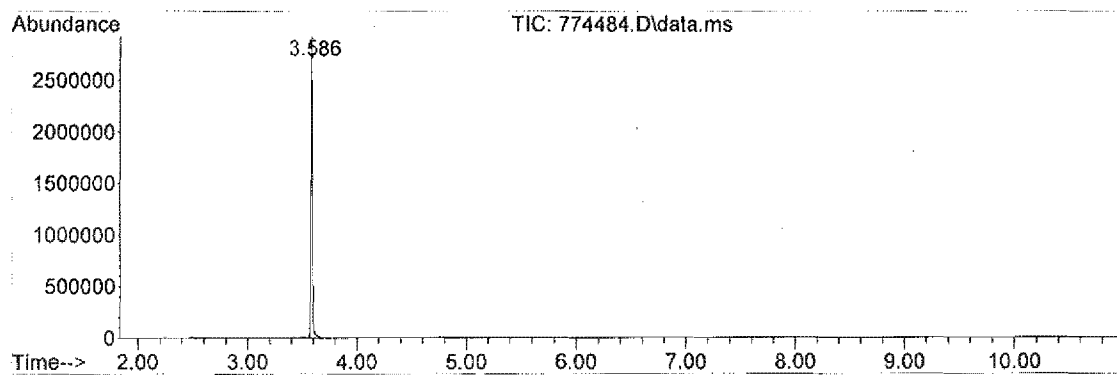
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : I:\03_01_11\774484.D
 Operator : ASD
 Date Acquired : 2 Mar 2011 2:03
 Sample Name : METHAMPHETAMINE STD
 Submitted by :
 Vial Number : 84
 AcquisitionMeth: SPEED.M
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.586	3024530	100.00	100.00

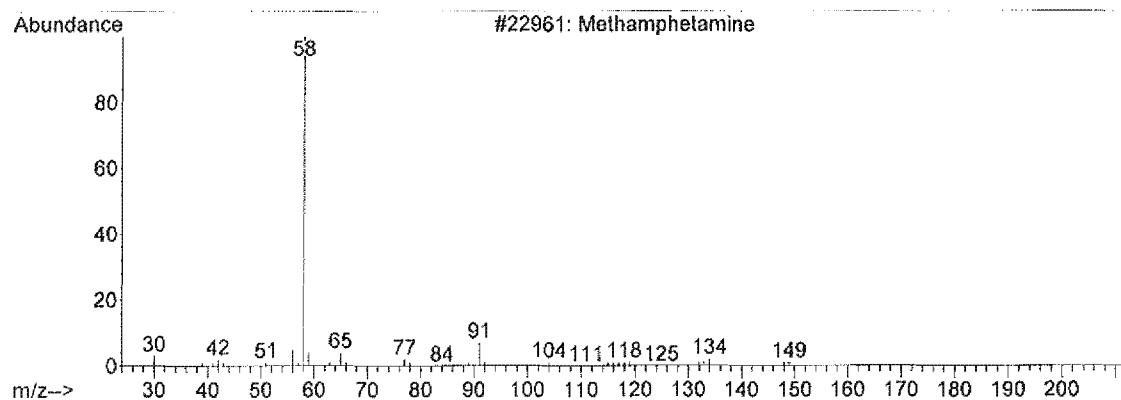
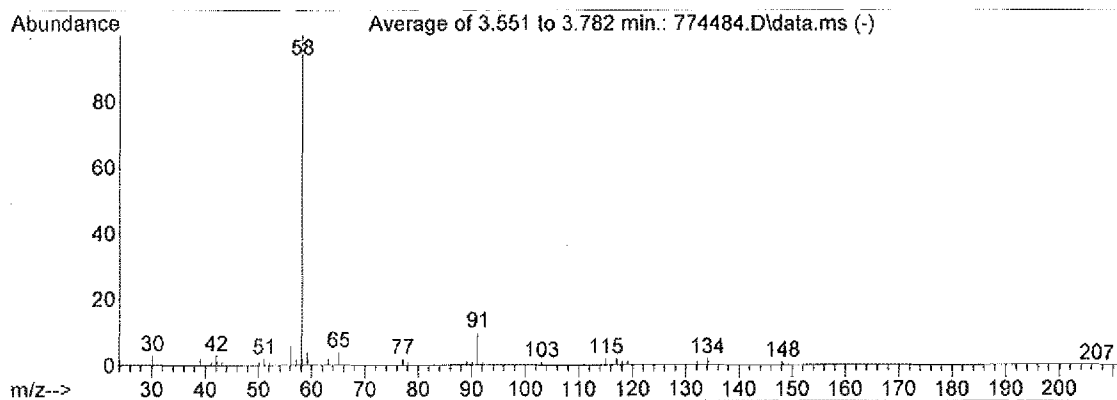
Area Percent / Library Search Report

Information from Data File:

File Name : I:\03_01_11\774484.D
 Operator : ASD
 Date Acquired : 2 Mar 2011 2:03
 Sample Name : METHAMPHETAMINE STD
 Submitted by :
 Vial Number : 84
 AcquisitionMeth: SPEED.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST08.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

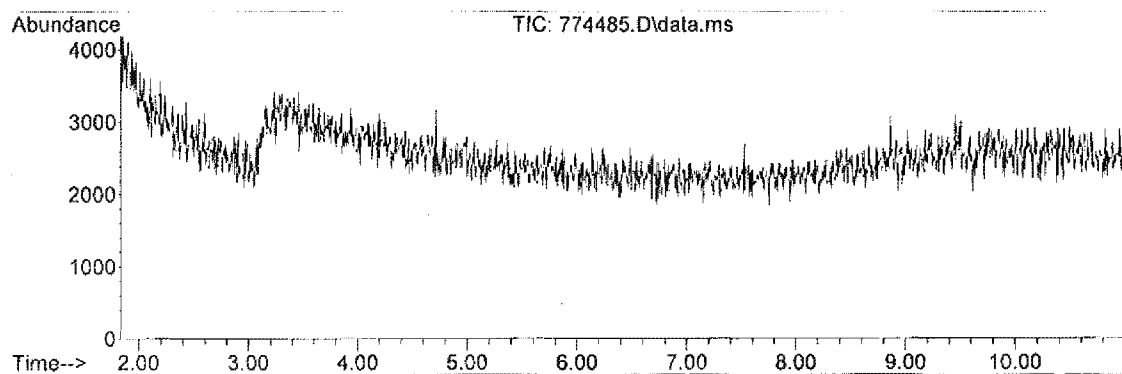
PK#	RT	Library/ID	CAS#	Qual
1	3.59	C:\Database\NIST08.L		
		Methamphetamine	000537-46-2	83
		Benzeneethanamine, N,.alpha.-dimeth	007632-10-2	83
		Methoxyphenamine	000093-30-1	78



Area Percent / Library Search Report

Information from Data File:

File Name : I:\03_01_11\774485.D
 Operator : ASD
 Date Acquired : 2 Mar 2011 2:18
 Sample Name : BLANK
 Submitted by :
 Vial Number : 2
 AcquisitionMeth: SPEED.M
 Integrator : RTE



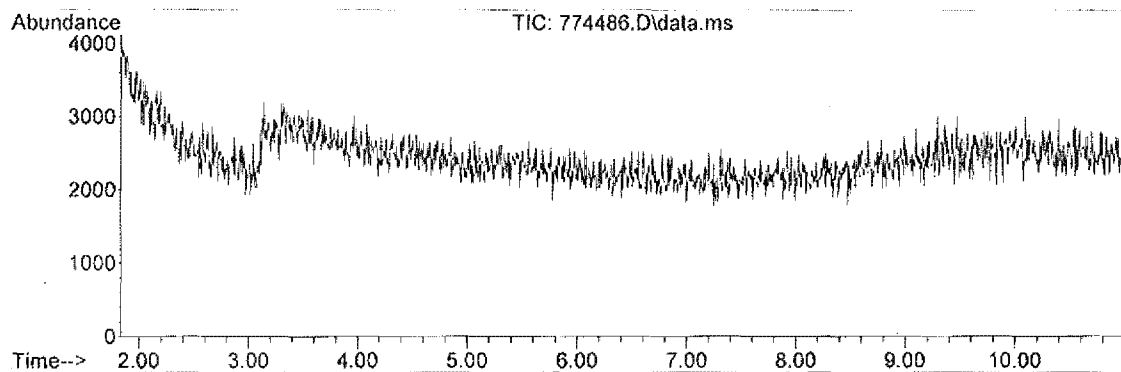
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : I:\03_01_11\774486.D
Operator : ASD
Date Acquired : 2 Mar 2011 2:33
Sample Name : BLANK
Submitted by : MGL
Vial Number : 2
AcquisitionMeth: SPEED.M
Integrator : RTE



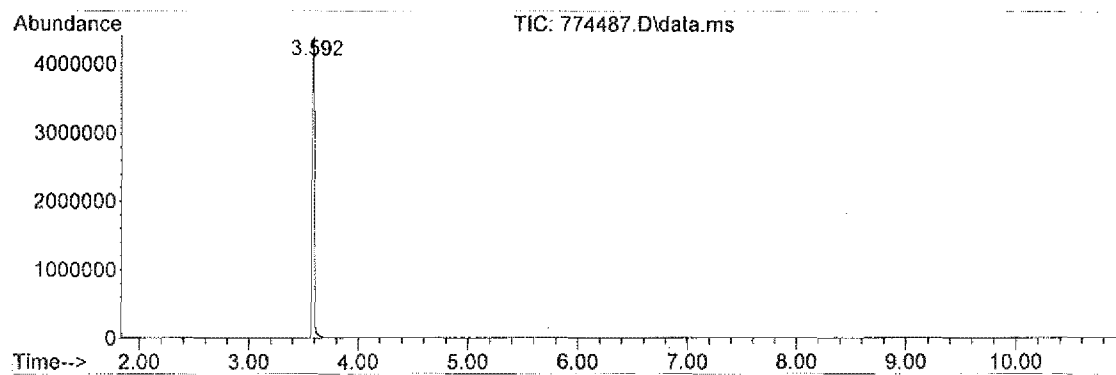
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : I:\03_01_11\774487.D
 Operator : ASD
 Date Acquired : 2 Mar 2011 2:47
 Sample Name : XXXXXXXXXX
 Submitted by : MGL
 Vial Number : 87
 AcquisitionMeth: SPEED.M
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.592	6883207	100.00	100.00

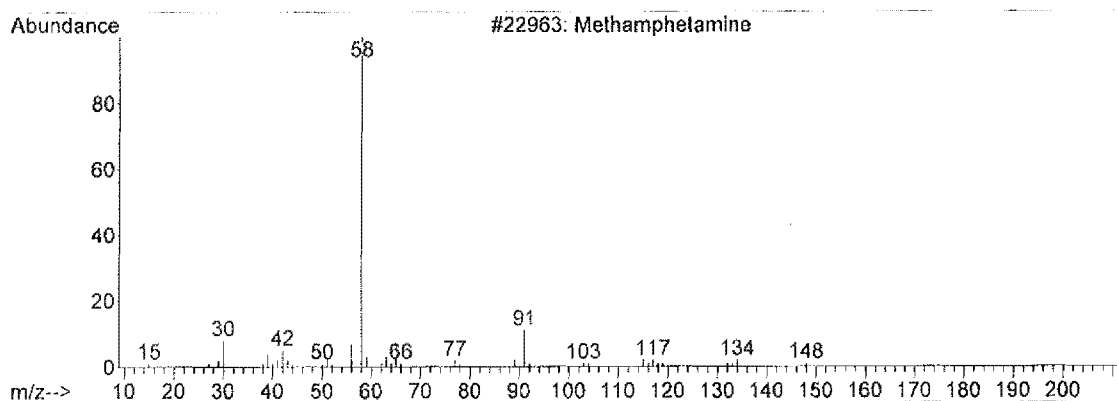
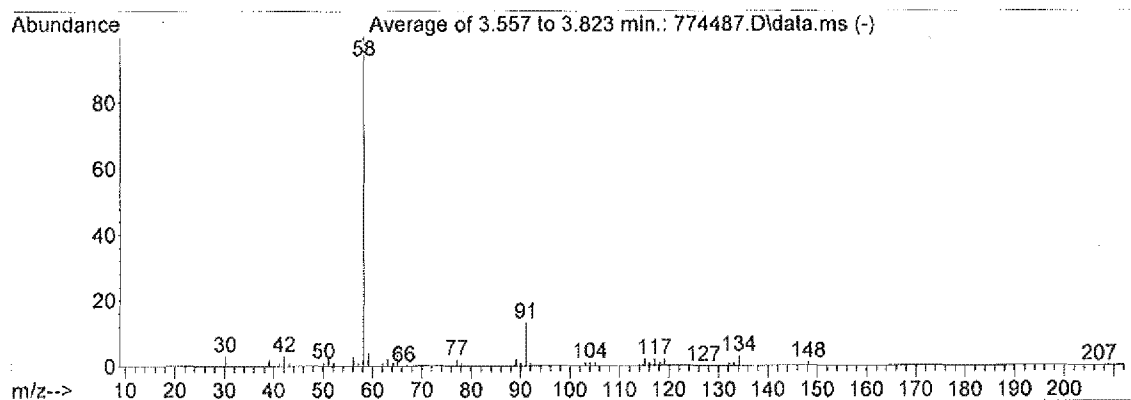
Area Percent / Library Search Report

Information from Data File:

File Name : I:\03_01_11\774487.D
 Operator : ASD
 Date Acquired : 2 Mar 2011 2:47
 Sample Name : XXXXXXXXXX
 Submitted by : MGL
 Vial Number : 87
 AcquisitionMeth: SPEED.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST08.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

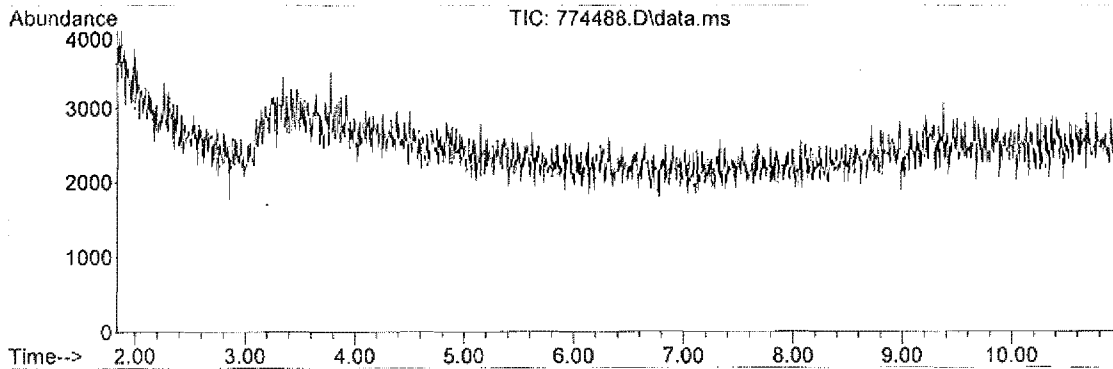
PK#	RT	Library/ID	CAS#	Qual
1	3.59	C:\Database\NIST08.L		
		Methamphetamine	000537-46-2	83
		Benzeneethanamine, N,.alpha.-dimeth	007632-10-2	83
		Phentermine	000122-09-8	83



Area Percent / Library Search Report

Information from Data File:

File Name : I:\03_01_11\774488.D
Operator : ASD
Date Acquired : 2 Mar 2011 3:02
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: SPEED.M
Integrator : RTE



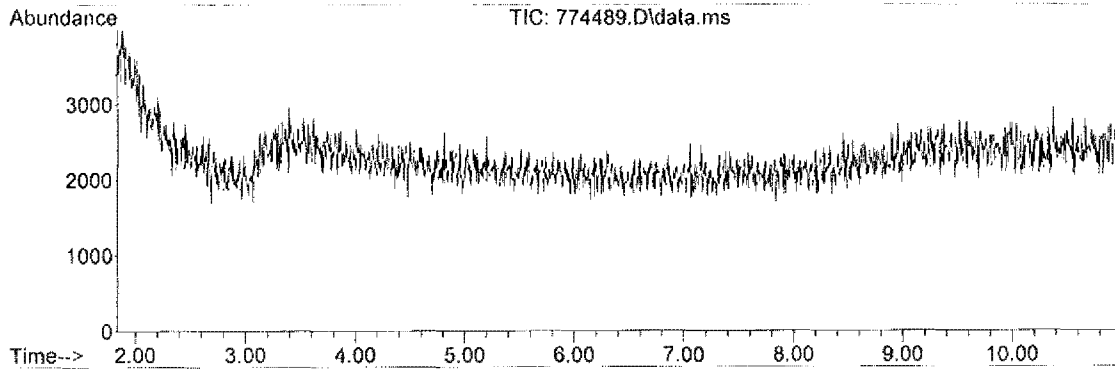
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : I:\03_01_11\774489.D
Operator : ASD
Date Acquired : 2 Mar 2011 3:17
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: SPEED.M
Integrator : RTE



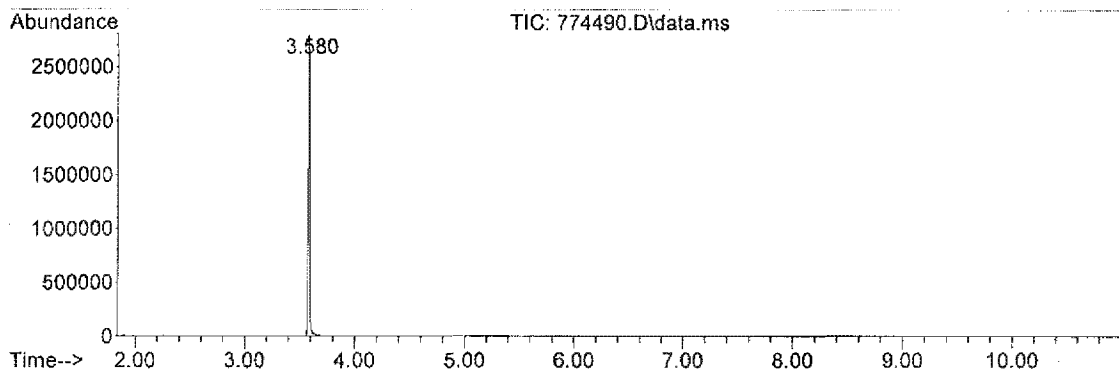
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : I:\03_01_11\774490.D
 Operator : ASD
 Date Acquired : 2 Mar 2011 3:31
 Sample Name : METHAMPHETAMINE STD
 Submitted by :
 Vial Number : 84
 AcquisitionMeth: SPEED.M
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.580	2990478	100.00	100.00

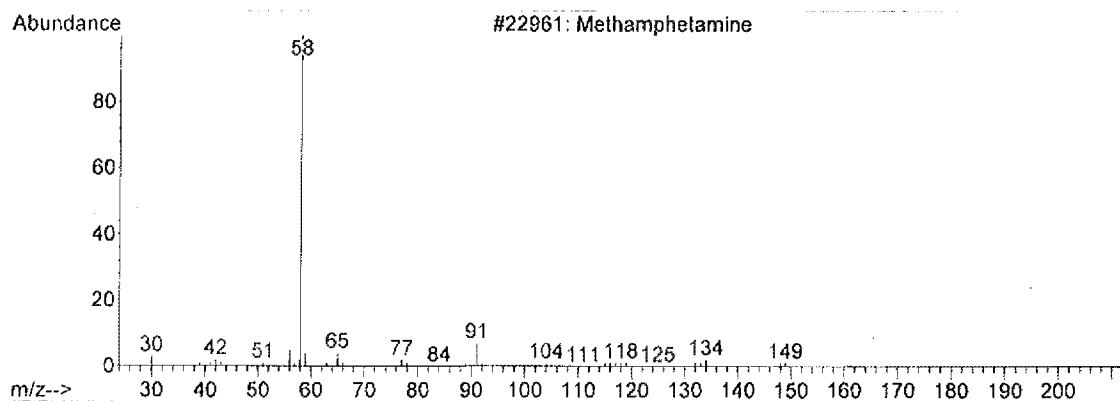
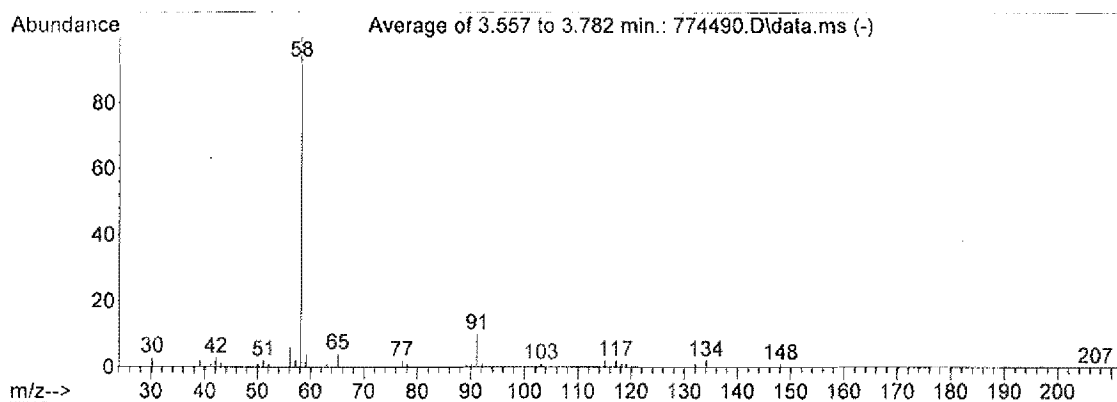
Area Percent / Library Search Report

Information from Data File:

File Name : I:\03_01_11\774490.D
 Operator : ASD
 Date Acquired : 2 Mar 2011 3:31
 Sample Name : METHAMPHETAMINE STD
 Submitted by :
 Vial Number : 84
 AcquisitionMeth: SPEED.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST08.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

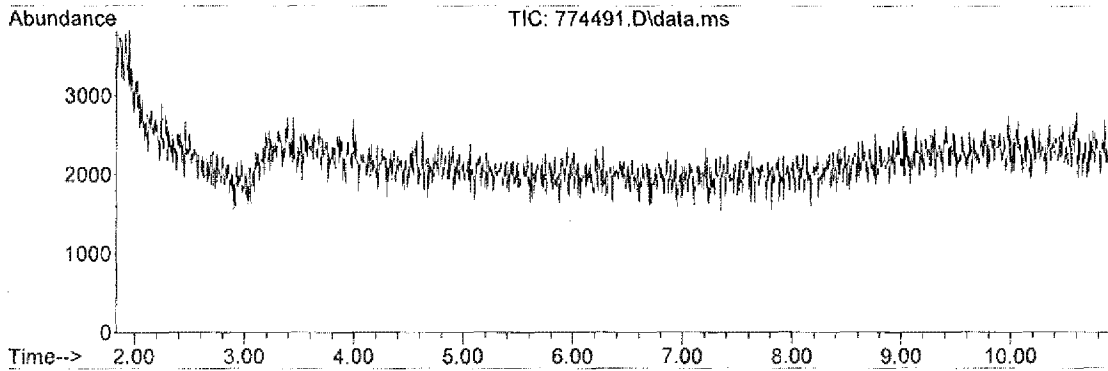
PK#	RT	Library/ID	CAS#	Qual
1	3.58	C:\Database\NIST08.L		
		Methamphetamine	000537-46-2	83
		Ethanamine, N,N-dimethyl-2-(phenylm	027058-12-4	78
		Methoxyphenamine	000093-30-1	78



Area Percent / Library Search Report

Information from Data File:

File Name : I:\03_01_11\774491.D
Operator : ASD
Date Acquired : 2 Mar 2011 3:46
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: SPEED.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

140

PROJECT NAME

NOTEBOOK NO.

[REDACTED]

1 pb w/ V.M.

net = 12.39 g

Macro / Micro / Day

⊕

⊕

⊕

Marjane
2/14/11

[REDACTED]

1 jar w/ V.M. & small pb w/ V.M.

net = 6.57 g

Macro

Micro

Day

⊕

⊕

⊕

Marjane
2-14-11

Last page.....no further data